Supplementary Online Content


eTable 1. Size of Surgical Groups During Postoperative Observation Period

eTable 2. Sensitivity Analysis: Within and Between Procedure Changes for Utilization Outcomes – Pre- to Post-surgery for 7170 Propensity-Score Matched Individuals With at Least 2 Years of Preoperative Enrollment Data

eFigure. Flow Diagram of Cohort Selection and Inclusion Criteria

This supplementary material has been provided by the authors to give readers additional information about their work.
**eTable 1.** Size of Surgical Groups During Postoperative Observation Period

<table>
<thead>
<tr>
<th>Procedure Type</th>
<th>Number Remaining Enrolled by Post-Operative Year (n (% of total cohort remaining))</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 year*</td>
</tr>
<tr>
<td>AGB</td>
<td>4935</td>
</tr>
<tr>
<td>RYGB</td>
<td>4935</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>9870 (100%)**</td>
</tr>
</tbody>
</table>

* Time denotes people remaining at the end of the year – e.g. “1 year” means “n” with a full post-operative year. **percent of original cohort remaining at each time point.
**eTable 2.** Sensitivity Analysis: Within and Between Procedure Changes for Utilization Outcomes – Pre- to Post-surgery for 7170 Propensity-Score Matched Individuals With at Least 2 Years of Preoperative Enrollment Data

<table>
<thead>
<tr>
<th></th>
<th>AGB</th>
<th>RYGB</th>
<th>AGB relative to RYGB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Level Change*</td>
<td>Trend Change*</td>
<td>Level Change*</td>
</tr>
<tr>
<td><strong>Quarterly ER Visits</strong></td>
<td>0.001 (-0.20, 0.20)</td>
<td>-0.05 (-0.08, -0.02)</td>
<td>+0.29 (0.11, 0.46)</td>
</tr>
<tr>
<td><strong>Quarterly Hospital Days</strong></td>
<td>0.12 (-0.13, 0.37)</td>
<td>-0.01 (-0.04, 0.02)</td>
<td>+0.46 (0.18, 0.75)</td>
</tr>
<tr>
<td><strong>Prescription Drug Costs</strong></td>
<td>-0.28 (-0.32, -0.23)</td>
<td>-0.10 (-0.11, -0.09)</td>
<td>-0.50 (-0.56, -0.45)</td>
</tr>
<tr>
<td><strong>Total Health Care Costs</strong></td>
<td>-0.11 (-0.18, -0.05)</td>
<td>-0.07 (-0.08, -0.06)</td>
<td>-0.13 (-0.20, -0.06)</td>
</tr>
</tbody>
</table>

*cells include parameter estimates and 95% CI's, parameter estimates for within procedure pre-post comparisons are simple rate ratios; **interaction term parameter estimates and 95% CI's are reported to compare level and trend changes between procedures, parameter estimates for between procedure comparisons are ratios of rate ratios.*
**eFigure. Flow Diagram of Cohort Selection and Inclusion Criteria**

- **65,189 Members with any Bariatric Procedure Code**
  - Eliminate those lacking morbid obesity code (where necessary) or with more than one procedure type in 180 day period
  - -18,440

- **46,749 with unique procedures**
  - Limit to only those whose index procedure was CPT coded as lap band or lap bypass
  - -21,267

- **25,482 (11,370 lap band and 14,112 lap bypass)**
  - Limit to those with enrollment at least one year before and one year following procedure
  - -12,775

- **12,707 (5,932 Lap band and 6,775 lap bypass)**
  - Limit to those between 18-64 years at time of procedure
  - -233

- **12,474 (5,811 Lap Band and 6,663 Lap Bypass)**
  - Limit to those who received procedure in 2005 or after
  - -35

- **12,439 (5,796 band & 6,643 bypass)**
  - Limit to those with no evidence of Gi malignancy
  - -21

- **12,418 (5,787 band & 6,631 bypass)**
  - Limit to those with no evidence of peptic ulcer disease in the 30 days leading up to surgery
  - -57

- **12,361 (5,769 band and 6,592 bypass)**
  - Limit to those with no evidence of Prior procedures
  - -50

- **12,311 (5,747 Band & 6,564 Bypass)**